

Patent Application Of
Paul Ping Zhi Chen
For
Portable Human Height Measuring Device

Abstract

The invention is a **portable human height measuring device**. The device consists of an ultrasonic distance sensor, a controller and several output units. The ultrasonic distance sensor measures a person's height. The control unit converts the electronic signals from the ultrasonic sensor to the proper measuring standards, metric or English system. The measurement output units can be a liquid crystal display LCD that displays, a voice synthesizer that announces, a mini printer that prints out the measurement, or a combination of them.

The portable human height measuring device is integrated onto a baseball like cap. The ultrasonic sensor is mounted on the sun visor of the cap. The control and output units are mounted on the crown of the cap. If the output units include a liquid crystal display, the LCD is placed on top of the sun visor. It can be flipped down so that the person wearing the cap can see his or her height measurement.

A switch is mounted on the top of the inner cap. When the head of the person wearing the cap touches the switch, it triggers the ultrasonic sensor to start measuring. The person's height is then converted to the proper measuring unit, and communicated to the person via output units.

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